



Gulf of Mexico Harmful Algal Bloom Bulletin

11 June 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: June 4, 2007

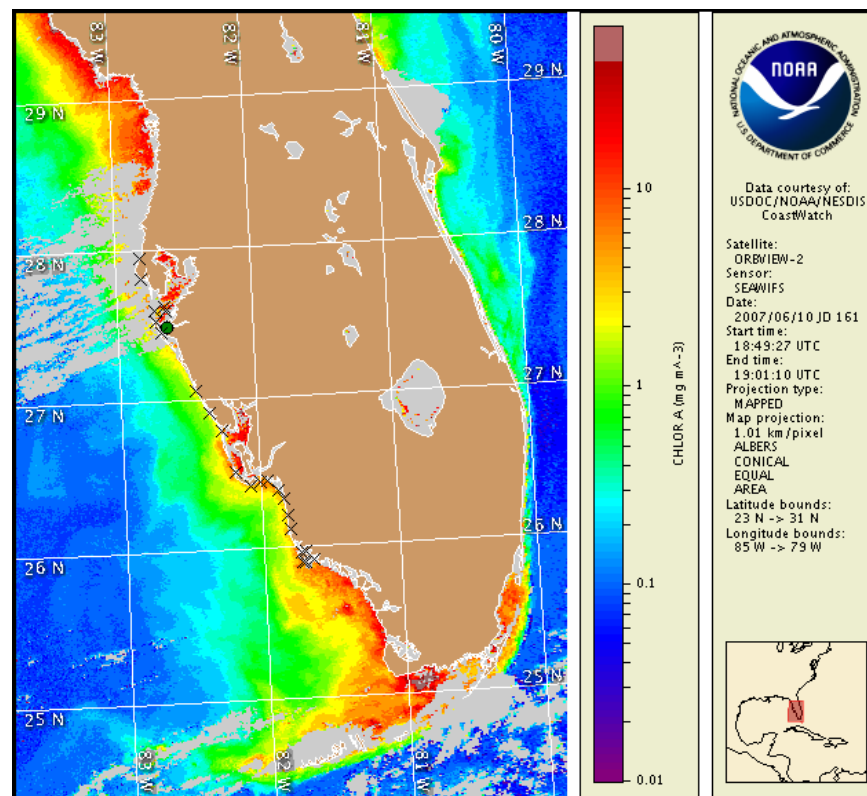
Conditions Report

There is currently no indication of harmful algal bloom presence alongshore southwest Florida, including the Keys region. No impacts are expected in any Florida county today through Sunday.

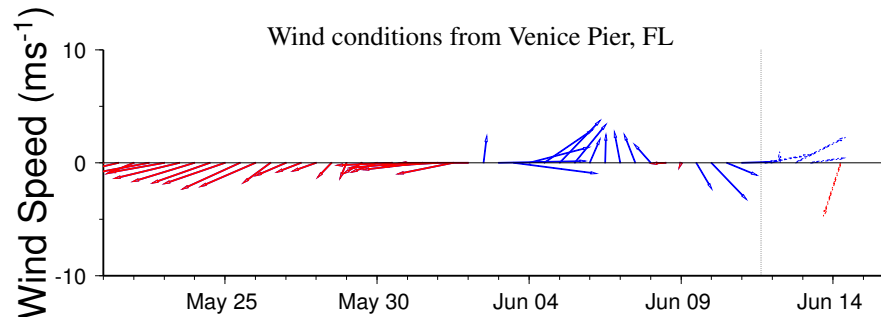
Analysis

Samples taken alongshore from Pinellas to Collier Counties during 6/4 through 6/7 all contained no more than background levels of *Karenia brevis* (FWRI), as did samples taken offshore of the Keys on 6/7 (MML). Satellite imagery from 6/10 shows an elevated chlorophyll feature offshore of Monroe County, centered at 25°35'N 81°25'W, with chlorophyll levels greater than 20 $\mu\text{g/L}$. This imagery also shows recently elevated chlorophyll west of Captiva Island, with offshore levels greater than 2 $\mu\text{g/L}$ around 26°32.1'N 82°19'W, and nearshore levels greater than 6 $\mu\text{g/L}$ at 26°34'N 82°14'W. A *Trichodesmium* bloom is present alongshore northern to central Collier County. There have been reports of discolored water in this region. Upwelling favorable winds expected on Thursday and Friday could facilitate bloom formation.

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Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from June 1-6 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf

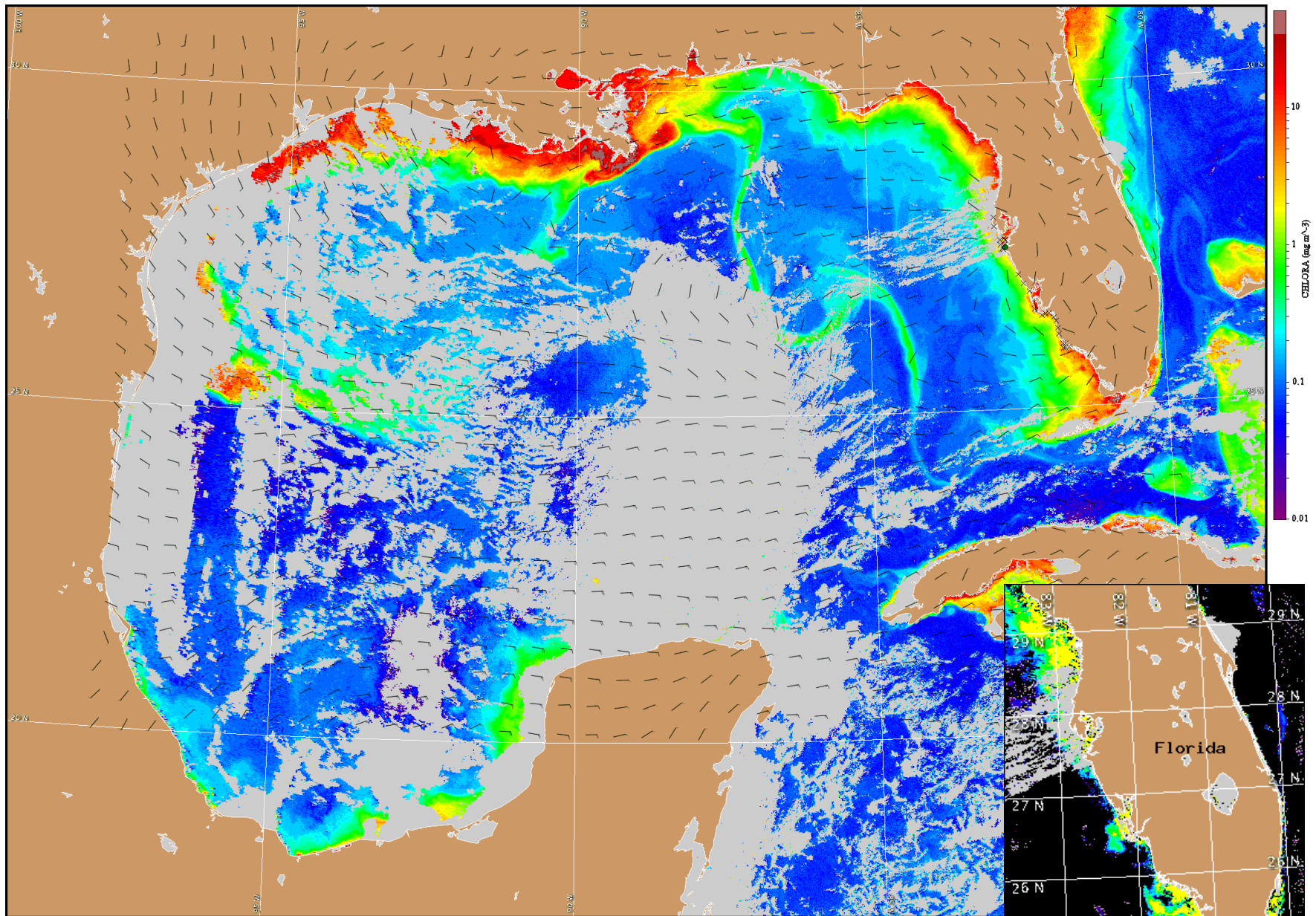


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Winds will be west (10 kts, 5 m/s) today through Wednesday, northeast (10 kts, 5 m/s) Thursday, and east (15 kts, 8 m/s) Friday.

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.



Satellite chlorophyll image and forecast winds for June 12, 2007 06Z with cell concentration sampling data from June 1-6 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf

Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).